

**ABSTRACT**

**[0051]** A method and system for generating an acoustic fingerprint of a digital audio signal is presented. A received digital audio signal is downsampled, based upon a predetermined frequency, and then subdivided into a beginning portion, a middle portion and an end portion. A plurality of beginning frames, a plurality of middle frames and a plurality of end frames, each having a predetermined number of samples, are extracted from the beginning, middle and end portions of the downsampled, digital audio signal, respectively. A plurality of frame vectors, each having a plurality of spectral residual bands and a plurality of time domain features, are generated from the plurality of beginning, middle and end frames, and an acoustic fingerprint of the digital audio signal is created based on the plurality of frame vectors. The acoustic fingerprint is then stored in a database.